

API Ballot 6579

TG DSE
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| Work Item Number | 7062 |
| Title of Work Item | Update Lift Sub Sizes and Dimensions |
| Ballot Revision Level | 1 |
| Type of Ballot (Initial, Comment, Comment resolution (reference API ballot#), 1 st Re-ballot, 2 nd Re-ballot, etc.) | Initial |
| Submitter Name(s) | Tony Collins |
| API Document Modified | 7-1 2e |
| Impacted Documents | |
| Revision Key | <u>New Text</u> Strike Through |

Work Item Charge: add new size to Lift Sub section, and update marking

Ballot Rationale: to approve for incorporation in an addendum to spec 7-1

Ballot Text: Draft document attached

Table D.12—Dimensions for Lift Subs

| Elevator Recess Diameter D_p $\pm 1/32$ | Diameter of Lift Shoulder (tapered) D_L $+1/8/0$ | Overall Length L_1 $+3/-4$ <u>min</u> | Top Length L_2 $\pm 1/8$ <u>min</u> | Elevator Recess Length L_3 (Ref.) <u>min</u> | Bottom Length L_4 $\pm 1/2$ <u>min</u> | Largest Elevator ^a | Inside diameter <u>D</u> <u>max</u> |
|---|--|--|--|---|---|-------------------------------|---|
| 2 3/8 | 3 1/2 | 36 | 4 | 18 | 14 | 2 7/8 | 1 9/16 |
| 2 7/8 | 4 1/2 | 36 | 4 | 18 | 14 | 3 1/2 or 4 1/4 | 2 1/16 |
| 3 1/2 | 5 | 36 | 4 | 18 | 14 | 4 1/2 | 2 1/16 |
| 4 | 6 | 36 | 4 | 18 | 14 | 5 1/2 | 2 3/4 |
| 4 1/2 | 6 1/4 | 36 | 4 | 18 | 14 | 5 1/2 | 2 3/4 |
| 5 | 6 1/2 | 36 | 4 | 18 | 14 | 5 1/2 | 2 3/4 |
| 5 1/2 | 7 1/4 | 36 | 4 | 18 | 14 | 6 5/8 | 2 3/4 |
| 6 5/8 | 8 | 36 | 4 | 18 | 14 | 6 5/8 | 2 3/4 |

NOTE Dimensions in inches.

^a For the lift sub and elevator best fit, it is recommended to use the appropriate elevator size for the lift sub D_p value in accordance with Table 7 in API 8C, 5th Edition where the data in this column is from.

7.5.3.1 General

Charpy V-notch impact tests shall be conducted on specimens conforming to the requirements of ASTM A370 and ASTM E23 and shall be conducted at a temperature of 21 °C ± 3 °C (70 °F ± 5 °F) for Types A, B and C, and at -20°C C ± 3 °C (-4 °F ± 5 °F) for Type D subs. Tests conducted at lower temperatures that meet the requirements stated in 7.5.3.4 are acceptable.

7.4 Dimensions for Type D (Lift Subs)

7.4.1 Diameter of both Lift Recess and Lift Shoulder

The diameters of the lift recess and lift shoulder shall conform as applicable to Table C.12 (Table D.12).

7.4.2 Connections, Bevel, and Outside Diameters

The connection sizes and styles shall conform as applicable to Table C.14 (Table D.14). The bevel and outside diameters shall conform as applicable to Table C.14 (Table D.14). The connections shall be a Preferred Connection, as listed in API 7-2 shall conform to the dimensional and gauging requirements of API 7-2. The bottom diameter, D shall be within the range for which bevel diameters are defined for this connection. All requirements of API 7-2 shall apply.

7.4.3 Inside Diameter

A through bore, diameter d, is optional, if it is present it shall conform to table C.12 (D.12). A bore is recommended through the connection to avoid the risk of the thread failing in shear when overloaded. This bore should be no smaller than the Pin ID taper of table C.5 in API 7-2. ~~The maximum inside diameter shall be the largest diameter allowed for the applicable size and style of connections specified in Table C.14 (Table D.14) and Table C.20 (Table D.20).~~

7.4.4 Length

Lengths and tolerances for Type D drill stem subs shall conform as applicable to Table C.12 (Table D.12), shall be as shown in Figure 6.

7.11 Marking of type D subs

Type D subs, in addition to the marking flat shall be paint marked on the lifting recess with the recess diameter in inches (.e.g. 3-1/2) in letters at least 1 inch tall.

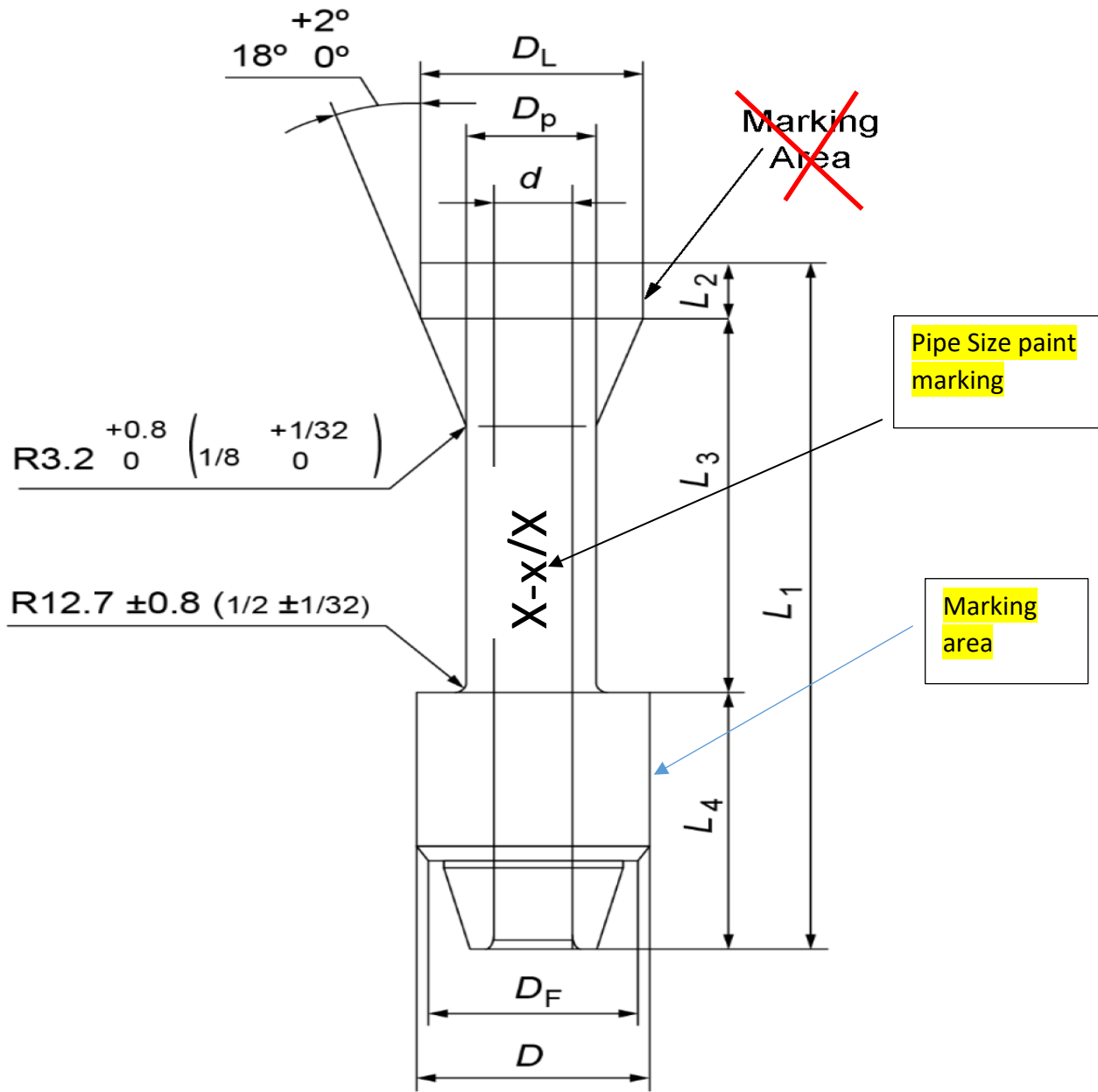


Figure 6—Lift Subs (Type D)